



RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/847,519

Source: OIPE

Date Processed by STIC: 5-14-01

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) **INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,**
- 2) **TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO).

Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

**Checker Version 3.0 can be down loaded from the USPTO website at the following address:
<http://www.uspto.gov/web/offices/pac/checker>**

Raw Sequence Listing Error Summary

<u>ERROR DETECTED</u>	<u>SUGGESTED CORRECTION</u>	<u>SERIAL NUMBER:</u> <u>09/847,519</u>
ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE		
1 <input type="checkbox"/> Wrapped Nucleic	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3, as this will prevent "wrapping".	
2 <input type="checkbox"/> Wrapped Aminos	The amino acid number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3, as this will prevent "wrapping".	
3 <input type="checkbox"/> Incorrect Line Length	The rules require that a line not exceed 72 characters in length. This includes spaces.	
4 <input type="checkbox"/> Misaligned Amino Acid Numbering	The numbering under each 5th amino acid is misaligned. This may be caused by the use of tabs between the numbering. It is recommended to delete any tabs and use spacing between the numbers.	
5 <input type="checkbox"/> Non-ASCII	This file was not saved in ASCII (DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text so that it can be processed.	
6 <input type="checkbox"/> Variable Length	Sequence(s) _____ contain n's or Xaa's which represented more than one residue. As per the rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the (ix) feature section that some may be missing.	
7 <input type="checkbox"/> PatentIn ver. 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequence(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies primarily to the mandatory <220>-<223> sections for Artificial or Unknown sequences.	
8 <input type="checkbox"/> Skipped Sequences (OLD RULES)	Sequence(s) _____ missing. If intentional, please use the following format for each skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (i) SEQUENCE CHARACTERISTICS:(Do not insert any headings under "SEQUENCE CHARACTERISTICS") (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: This sequence is intentionally skipped Please also adjust the "(iii) NUMBER OF SEQUENCES:" response to include the skipped sequence(s).	
9 <input type="checkbox"/> Skipped Sequences (NEW RULES)	Sequence(s) _____ missing. If intentional, please use the following format for each skipped sequence. <210> sequence id number <400> sequence id number 000	
10 <input type="checkbox"/> Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Use of <220> to <223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.	
11 <input type="checkbox"/> Use of "Artificial" (NEW RULES)	Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.	
12 <input checked="" type="checkbox"/> Use of <220>Feature (NEW RULES)	Sequence(s) _____ are missing the <220>Feature and associated headings. Use of <220> to <223> is MANDATORY if <213>ORGANISM is "Artificial Sequence" or "Unknown" Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 6/01/98, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of new Rules)	
13 <input type="checkbox"/> PatentIn ver. 2.0 "bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other means to copy file to floppy disk.	

OIPE

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/847,519

DATE: 05/14/2001

TIME: 12:21:48

Input Set : A:\422us1.app
 Output Set: N:\CRF3\05142001\I847519.raw

3 <110> APPLICANT: LUCHE, Ralf M.
 4 WEI, Bo
 6 <120> TITLE OF INVENTION: DSP-14 DUAL-SPECIFICITY PHOSPHATASE
 8 <130> FILE REFERENCE: 200125.422US
 C--> 10 <140> CURRENT APPLICATION NUMBER: US/09/847,519
 C--> 11 <141> CURRENT FILING DATE: 2001-05-01
 13 <150> PRIOR APPLICATION NUMBER: 60/201,322
 14 <151> PRIOR FILING DATE: 2000-05-02
 16 <160> NUMBER OF SEQ ID NOS: 16
 18 <170> SOFTWARE: PatentIn Ver. 2.1
 20 <210> SEQ ID NO: 1
 21 <211> LENGTH: 1165
 22 <212> TYPE: DNA
 23 <213> ORGANISM: Homo sapiens
 25 <400> SEQUENCE: 1
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 27 cgcggccagg ccccgccaca cccagctca gaaaggagag aaaatccctt ggctctaaaa 120
 28 tgacatctgg agaagtgaag acaaggctca agaatgccta ctcatctgcc aagaggctgt 180
 29 cggcgaagat ggaggaggaa ggggaggagg aggactactg caccctggc gccttgagc 240
 30 tggagcggct cttctggaaag ggcagtcccc agtacacccca cgtcaacgag gtctggccca 300
 31 agctctacat tggcgatgag gcgacggcgc tggaccgcta taggctgcag aaggcggggt 360
 32 tcacgcacgt gctgaacgcg gcccacggcc gctggAACGT ggacactggg cccgactact 420
 33 acccgacat ggacatccag taccacggcg tggaggccga cgacctggcc accttcgacc 480
 34 tcagtgtctt cttctacccg gggcagcct tcatcgacag agcgctaagc gacgaccaca 540
 35 gtaagatcct ggttcactgc gtcattggcc gcagccggc agccaccctg gtcctggcct 600
 36 acctgtatgat ccacaaggac atgaccctgg tggacgccat ccagcaagt gccaagaacc 660
 37 gctcgctcct cccgaacccgg ggcttttga agcagctccg ggagctggc aagcagctgg 720
 38 tgcacgcacag ggcacggc cagccggcagg acggtgagga ggaggatggc agggagctgt 780
 39 agggccgact cacagggcca gcagaggcac ttggggacag aggggagagg cagaacatag 840
 40 ccctggccata ggactccaga gaaggatgg taaaaccgaa gctcgactct tccaaaccat 900
 41 cttgttcaac ttccccatgt gtgtggggc cagggaggac ccagaacgtc ccccgccag 960
 42 agctgagcgc tcagcctctc agcaaatgg gagggacggg ctcccccgtc ctgggtcaca 1020
 43 gaggagcatg ccacgctgca ccaagtcctcc tgctttgggtt ttgtttttt ggtgagaagg 1080
 44 aagagggaaa aagattttta aaatgtgttag gcagtatgtt gtgattaaac gtttggcttt 1140
 45 gtccaaaaaaaaaaaaaaa aaaaaaaa 1165
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 49 <211> LENGTH: 220
 50 <212> TYPE: PRT
 51 <213> ORGANISM: Homo sapiens
 53 <400> SEQUENCE: 2
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 55 1 5 10 15
 57 Ala Lys Arg Leu Ser Pro Lys Met Glu Glu Glu Gly Glu Glu Asp
 58 20 25 30
 60 Tyr Cys Thr Pro Gly Ala Phe Glu Leu Glu Arg Leu Phe Trp Lys Gly
 61 35 40 45
 63 Ser Pro Gln Tyr Thr His Val Asn Glu Val Trp Pro Lys Leu Tyr Ile

Does Not Comply
 Corrected Diskette Needed

PP. 2-3

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/847,519

DATE: 05/14/2001
TIME: 12:21:48

Input Set : A:\422us1.app
Output Set: N:\CRF3\05142001\I847519.raw

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64      50          55          60
66 Gly Asp Glu Ala Thr Ala Leu Asp Arg Tyr Arg Leu Gln Lys Ala Gly
67   65           70           75           80
69 Phe Thr His Val Leu Asn Ala Ala His Gly Arg Trp Asn Val Asp Thr
70           85           90           95
72 Gly Pro Asp Tyr Tyr Arg Asp Met Asp Ile Gln Tyr His Gly Val Glu
73           100          105          110
75 Ala Asp Asp Leu Pro Thr Phe Asp Leu Ser Val Phe Phe Tyr Pro Ala
76           115          120          125
78 Ala Ala Phe Ile Asp Arg Ala Leu Ser Asp Asp His Ser Lys Ile Leu
79           130          135          140
81 Val His Cys Val Met Gly Arg Ser Arg Ser Ala Thr Leu Val Leu Ala
82 145           150           155           160
84 Tyr Leu Met Ile His Lys Asp Met Thr Leu Val Asp Ala Ile Gln Gln
85           165           170           175
87 Val Ala Lys Asn Arg Cys Val Leu Pro Asn Arg Gly Phe Leu Lys Gln
88           180           185           190
90 Leu Arg Glu Leu Asp Lys Gln Leu Val Gln Gln Arg Arg Arg Ser Gln
91           195           200           205
93 Arg Gln Asp Gly Glu Glu Asp Gly Arg Glu Leu
94           210           215           220
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98 <211> LENGTH: 19
99 <212> TYPE: PRT
100 <213> ORGANISM: Artificial Sequence
102 <220> FEATURE:
103 <223> OTHER INFORMATION: Description of Artificial Sequence: Peptide
105 <400> SEQUENCE: 3
106 Val His Cys Val Met Gly Arg Ser Arg Ser Ala Thr Leu Val Leu Ala
107 1           5           10           15
109 Tyr Leu Met
113 <210> SEQ ID NO: 4
114 <211> LENGTH: 24
115 <212> TYPE: PRT
116 <213> ORGANISM: Artificial Sequence
118 <220> FEATURE:
119 <223> OTHER INFORMATION: Description of Artificial Sequence: Peptide
121 <400> SEQUENCE: 4
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123 1           5           10           15
125 Thr Asn Ile Leu Ala Tyr Leu Met
126           20
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130 <211> LENGTH: 28
131 <212> TYPE: DNA
132 <213> ORGANISM: Artificial Sequence
134 <220> FEATURE:
135 <223> OTHER INFORMATION: Description of Artificial Sequence: Nucleotide
136 primer

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too
Responses
obvious. What is
the source of the
genetic material?
in the sequence?
See #12 on the
Error Summary sheet.

RAW SEQUENCE LISTING DATE: 05/14/2001
 PATENT APPLICATION: US/09/847,519 TIME: 12:21:48

Input Set : A:\422us1.app
 Output Set: N:\CRF3\05142001\I847519.raw

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143 <211> LENGTH: 28
144 <212> TYPE: DNA
145 <213> ORGANISM: Artificial Sequence
147 <220> FEATURE:
148 <223> OTHER INFORMATION: Description of Artificial Sequence Nucleotide
149 primer
151 <400> SEQUENCE: 6
152 cacaaggaca tgaccctggg ggacgc 28
155 <210> SEQ ID NO: 7
156 <211> LENGTH: 22
157 <212> TYPE: DNA
158 <213> ORGANISM: Artificial Sequence
160 <220> FEATURE:
161 <223> OTHER INFORMATION: Description of Artificial Sequence Nucleotide
162 primer
164 <400> SEQUENCE: 7 22
165 gccccagccg gtcagccacc ct
168 <210> SEQ ID NO: 8
169 <211> LENGTH: 170
170 <212> TYPE: PRT
171 <213> ORGANISM: Homo sapiens
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175 1 5 10 15
177 Pro Leu Ser Asn Ser Gln Pro Ser Phe Pro Val Glu Ile Leu Pro Phe
178 20 25 30
180 Leu Tyr Leu Gly Cys Ala Lys Asp Ser Thr Asn Leu Asp Val Leu Glu
181 35 40 45
183 Glu Phe Gly Ile Lys Tyr Ile Leu Asn Val Thr Pro Asn Leu Pro Asn
184 50 55 60
186 Leu Phe Glu Asn Ala Gly Glu Phe Lys Tyr Lys Gln Ile Pro Ile Ser
187 65 70 75 80
189 Asp His Trp Ser Gln Asn Leu Ser Gln Phe Phe Pro Glu Ala Ile Ser
190 85 90 95
192 Phe Ile Asp Glu Ala Arg Gly Lys Asn Cys Gly Val Leu Val His Cys
193 100 105 110
195 Leu Ala Gly Ile Ser Arg Ser Val Thr Val Thr Val Ala Tyr Leu Met
196 115 120 125
198 Gln Lys Leu Asn Leu Ser Met Asn Asp Ala Tyr Asp Ile Val Lys Met
199 130 135 140
201 Lys Lys Ser Asn Ile Ser Pro Asn Phe Asn Phe Met Gly Gln Leu Leu
202 145 150 155 160
204 Asp Phe Glu Arg Thr Leu Gly Leu Ser Ser
205 165 170
208 <210> SEQ ID NO: 9
209 <211> LENGTH: 168

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See p 2

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Input Set : A:\422us1.app
Output Set: N:\CRF3\05142001\I847519.raw

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 211 <213> ORGANISM: Homo sapiens
 213 <400> SEQUENCE: 9
 214 Asp Arg Glu Leu Pro Ser Ser Ala Thr Glu Ser Asp Gly Ser Pro Val
 215 1 5 10 15
 217 Pro Ser Ser Gln Pro Ala Phe Pro Val Gln Ile Leu Pro Tyr Leu Tyr
 218 20 25 30
 220 Leu Gly Cys Ala Lys Asp Ser Thr Asn Leu Asp Val Leu Gly Lys Tyr
 221 35 40 45
 223 Gly Ile Lys Tyr Ile Leu Asn Val Thr Pro Asn Leu Pro Asn Ala Phe
 224 50 55 60
 226 Glu His Gly Glu Phe Thr Tyr Lys Gln Ile Pro Ile Ser Asp His
 227 65 70 75 80
 229 Trp Ser Gln Asn Leu Ser Gln Phe Pro Glu Ala Ile Ser Phe Ile
 230 85 90 95
 232 Asp Glu Ala Arg Ser Lys Lys Cys Gly Val Leu Val His Cys Leu Ala
 233 100 105 110
 235 Gly Ile Ser Arg Ser Val Thr Val Ala Tyr Leu Met Gln Lys
 236 115 120 125
 238 Met Asn Leu Ser Leu Asn Asp Ala Tyr Asp Phe Val Lys Arg Lys Lys
 239 130 135 140
 241 Ser Asn Ile Ser Pro Asn Phe Met Gly Gln Leu Leu Asp Phe
 242 145 150 155 160
 244 Glu Arg Thr Leu Gly Leu Ser Ser
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 249 <211> LENGTH: 157
 250 <212> TYPE: PRT
 251 <213> ORGANISM: Homo sapiens
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 257 Ile Leu Pro Asn Leu Tyr Leu Gly Ser Ala Arg Asp Ser Ala Asn Leu
 258 20 25 30
 260 Glu Ser Leu Ala Lys Leu Gly Ile Arg Tyr Ile Leu Asn Val Thr Pro
 261 35 40 45
 263 Asn Leu Pro Asn Phe Phe Glu Lys Asn Gly Asp Phe His Tyr Lys Gln
 264 50 55 60
 266 Ile Pro Ile Ser Asp His Trp Ser Gln Asn Leu Ser Arg Phe Phe Pro
 267 65 70 75 80
 269 Glu Ala Ile Glu Phe Ile Asp Glu Ala Leu Ser Gln Asn Cys Gly Val
 270 85 90 95
 272 Leu Val His Cys Leu Ala Gly Val Ser Arg Ser Val Thr Val Thr Val
 273 100 105 110
 275 Ala Tyr Leu Met Gln Lys Leu His Leu Ser Leu Asn Asp Ala Tyr Asp
 276 115 120 125
 278 Leu Val Lys Arg Lys Lys Ser Asn Ile Ser Pro Asn Phe Asn Phe Met
 279 130 135 140
 281 Gly Gln Leu Leu Asp Phe Glu Arg Ser Leu Arg Leu Glu

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Input Set : A:\422us1.app
Output Set: N:\CRF3\05142001\I847519.raw

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285	<210>	SEQ ID NO:	11
286	<211>	LENGTH:	170
287	<212>	TYPE:	PRT
288	<213>	ORGANISM:	Homo sapiens
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294	Gln Pro Cys Leu Pro Val Pro Ser Val Gly Leu Thr Arg Ile Leu Pro		
295	20	25	30
297	His Leu Tyr Leu Gly Ser Gln Lys Asp Val Leu Asn Lys Asp Leu Met		
298	35	40	45
300	Thr Gln Asn Gly Ile Ser Tyr Val Leu Asn Ala Ser Asn Ser Cys Pro		
301	50	55	60
303	Lys Pro Asp Phe Ile Cys Glu Ser Arg Phe Met Arg Val Pro Ile Asn		
304	65	70	75
306	Asp Asn Tyr Cys Glu Lys Leu Leu Pro Trp Leu Asp Lys Ser Ile Glu		
307	85	90	95
309	Phe Ile Asp Lys Ala Lys Leu Ser Ser Cys Gln Val Ile Val His Cys		
310	100	105	110
312	Leu Ala Gly Ile Ser Arg Ser Ala Thr Ile Ala Ile Tyr Ile Met		
313	115	120	125
315	Lys Thr Met Gly Met Ser Ser Asp Asp Ala Tyr Arg Phe Val Lys Asp		
316	130	135	140
318	Arg Arg Pro Ser Ile Ser Pro Asn Phe Asn Phe Leu Gly Gln Leu Leu		
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321	Glu Tyr Glu Arg Thr Leu Lys Leu Leu Ala		
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326	<211>	LENGTH:	168
327	<212>	TYPE:	PRT
328	<213>	ORGANISM:	Homo sapiens
330	<400>	SEQUENCE:	12
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334	Pro Arg Val Pro Ile Tyr Asp Gln Gly Gly Pro Val Glu Ile Leu Pro		
335	20	25	30
337	Tyr Leu Tyr Leu Gly Ser Cys Asn His Ser Ser Asp Leu Gln Gly Leu		
338	35	40	45
340	Gln Ala Cys Gly Ile Thr Ala Val Leu Asn Val Ser Ala Ser Cys Pro		
341	50	55	60
343	Asn His Phe Glu Gly Leu Phe His Tyr Lys Ser Ile Pro Val Glu Asp		
344	65	70	75
346	Asn Gln Met Val Glu Ile Ser Ala Trp Phe Gln Glu Ala Ile Ser Phe		
347	85	90	95
349	Ile Asp Ser Val Lys Asn Ser Gly Gly Arg Val Leu Val His Cys Gln		
350	100	105	110
352	Ala Gly Ile Ser Arg Ser Ala Thr Ile Cys Leu Ala Tyr Leu Ile Gln		
353	115	120	125

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/847,519

DATE: 05/14/2001
TIME: 12:21:50

Input Set : A:\422us1.app
Output Set: N:\CRF3\05142001\I847519.raw

L:10 M:270 C: Current Application Number differs, Replaced Application Number
L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date